40 Pt II

19 45-47 **File No.** 7413/36

B CLASS

P.W. **DEPARTMENT**

EL **BRANCH**

Subject:— Post-WAR Reconstruction

Athni – Taluka. Belgaum. Dist.

Electrification, Scheme for

II

File No. 7413/36 EIB

Std. Scott. Slip 24-B

T.C. originals in P.W.R.M. file No. 7413/36.

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Post-War Reconstruction.
Taluka Planning.

Government of Bombay.
Reconstruction Department.
Resolution No.149.
Bombay Castle, 2nd May 1945.

Government letter, No.10665/39-J, dated the 12th March 1945 to the Commissioners of Divisions.

Letter from the Commissioner, S.D., No. V.L.T.-161, dated the 10th April 1945.

Letter from the Commissioner, S.D., No.V.L.T.-161, dated the 24th April 1945.

Resolution.-Government has selected the Athni taluka of Belgaum district as the second area in the Southern Division for post-war reconstruction planning. Mr.S.S.Bodas on completion of his work in Khed taluka, district Ratnagiri, should be appointed for three months Prant Officer on special duty in charge of Athni taluka which should be constituted a revenue sub-division. In drawing up the plan of the Athni taluka Mr.Bodas should follow the procedure laid down in Government Resolution, Reconstruction Department, No. 10665/39, dated 25th November 1944.

2. Mr Bodas will draw pay and travelling allowance as a Sub-divisional Officer and will be given the staff specified in paragraph 5 of Government Resolution, No.10665/39, dated 25th November 1944. The Collector of Belgaum should arrange to provide this staff. The charge is debitable to "25-General Administration". The Commissioner, S.D., should point out, in due course, the specific source from which the charge can be met.

3. Heads of Departments are requested to send to Mr.S.S.Bodas at once short outlines of departmental plans which they consider may be suitable for application to the Athni taluka of the Belgaum district.

By order of the Governor of Bombay,

E.W.Perry,
Chief Secretary to Government.

To

The Commissioners of Divisions,
The Collector of Belgaum,
The Director of Agriculture,
The Registrar, Co-operative Societies and Director of Rural Development,
The Director of Veterinary Services,
The Chief Conservator of Forests,
The surgeon General with the Government of Bombay,
The Director of Public Health,
The Director of Public Instruction,
The Director of Industeries,
The Commissioner of Labour,
The Secretary, Provincial Transport Authority,
The Superintending Engineer, Project Circle,
The Superintending Engineers, Northern, Central and Southern Circles,
The Special Officer, Electric Circle,
The Consulting Public Health Engineer,
The Assistant Director of Recruiting and Chief Civil Liaison Officer, Southern Area, Poona,
The Accountant General(through the Finance Department),
The General Department,
The Educational Department,
The Political and Services Department,
The Revenue Department,
The Public Works Department,
The Home Department,
The Finance Department,

S.S.Bodas, Esquire, Prant Officer on Special duty in charge of Athni Taluka.

P.W.R.B.

Submitted for information.

2. The Superintending Engineer, Project Circle, and the Special Officer (Electric Grid) may be asked to send a copy of the notes that may be supplied by them to Mr. Bodas, Prant Officer on specialxxx duty in charge of Athni Taluka, with reference to paragraph 3 of Government Resolution in question. Draft put up for approval.

No.7413/36-R. Public Works Department,
Bombay Castle, 25th May 1945.

To

The Superintending Engineer, Project Circle,
Special Officer (Electric Grid)

Subject:-Post-War Reconstruction planning in the Athni Taluka of Belgaum District.

Reference:Government Resolution Reconstruction Department No.149, dated the 2nd May 1945

2. With reference to paragraph 3 of the Government Resolution quoted above you are requested to furnish to tis Secretariat a copy of any notes that may be supplied by you to Mr.S.S.Bodas, Prant Officer on special duty in charge of Athni Taluka.

By order of the Governor of Bombay

Id/-K.D.K.
16-5-45.

Id/-C.G.K.
18-5-45.

R.H.H.
21-5-45.

T.C.
Originals
in P.W.R.B.
file No 7413/36

ABB
17-Feb

Letter

No.Elg.193 -1869
Office of the Special Officer(Electric Grid),
Old Custom House Yard, Fort,
Bombay, 31st. May, 1945.

To

S.S.Bedas, Esq.,
Prant Officer on Special Duty,
Athni Taluka, Athni (Dist:Belgaum)

Subject:- Post-war Reconstruction Planning in the Athni Taluka of Belgaum District.

Reference Government Resolution, Reconstruction Department No.149, dated the 2nd May, 1945.

2. I propose to send Mr.K.V.Ranade, one of my assistants to Athni within a couple of days for the purpose of carrying out an electrical load survey of certain places in the Athni Taluka with the object of preparing a scheme for the supply of electricity in the areas in question.

3. Mr.Ranade will call to see you for a preliminary consultation on the 4th of June, 1945, and I trust this will be convenient to you.

Sd/- P.B.Advani.

Special Officer(Electric Grid).

PTO

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-2-

No.Elg. 193 - 1870
Bombay, 31st May, 1945.

Copy forwarded with compliments to the Secretary to Government, Public Works Department, Bombay, for information with reference to Government endorsement, Public Works Department No.7413/36-R, dated the 25th May, 1945.

P.3

M B Advani
Special Officer(Electric Grid).

P.W.R.B.

L.3 Submitted for information with reference to G.L. No. 7413/36-R, & the 25th May 1945.

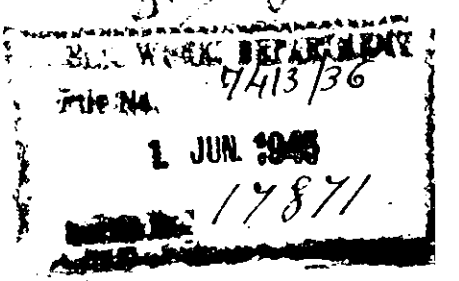
2. Further developments may be awaited.

3. Notes from the S.E, P.C, with ref: to the G.L. quoted above may also be awaited.

6/6/45

6/6/45

P.W.R.B



Note on the proposed Electrification of the Athni Taluka, Belgaum District.

1. General - The total population of the Athni Taluka is approximately 1,64,104 spread over an area of about 778 sq.miles. The electrification of all the 82 villages in the Taluka will not be an economical proposition owing to the sparsely populated country and present day high cost of plant and equipment. Under the circumstances, the possibility of electrifying only some selected villages in the Taluka has been considered.

2. The town of Athni having a population of about 13,783 persons has already been provided with electricity by a private licensee. There are a few large villages west of Athni in the Krishna river region situated not far from each other. In the event of these villages being electrified, the additional population which will be served will be 31,801 Nt. This means that about 27 per cent.of the population of the Taluka will be provided with electricity.

3. In order that the village area mentioned in para.2, may have an electric supply, the question of establishing a power house at Shedbal has been considered. This power house will supply energy to the villages of Shedbal as well as to the neighbouring village area. The estimate includes the cost of the power house at Shedbal also that of electrifying the surrounding villages.

4. The total cost of the village electrification scheme will amount to Rs.5,95,000 approximately as per enclosure 1.The probable loss involved in the fifth year of working will be Rs.20,595 as per details in enclosure 2. -The approximate details of the operating staff required for the scheme will be as per enclosure 3. Enclosure 4 gives the forecast of the development of the scheme over a period of ten years. It will be seen from the enclosures that if depreciation at full rates is allowed for, the scheme is not likely to become self-supporting within ten years of working. The approximate total loss likely to be involved over a period of ten years will amount to about Rs. 2,26,936. In estimating the above figure, the amount for depreciation has been calculated on the basis of normal physical life of the plant adopting sinking fund method. Since the rate for depreciation is based on the present inflated prices, depreciation fund accumulated within the normal life of the plant and works may not be fully utilised

when the time comes for replacements. It is not unreasonable to assume that after the normal life of the plant is over and replacement becomes due, the prices then prevailing may be some two thirds of the present prices and hence as an alternative, profit and loss figures have also been worked out on the basis of depreciation rates which will at the end of the normal life of the plant, make available 2/3rds of the present cost of the plant. If this basis of depreciation is agreed to, the scheme is likely to become self-supporting from the ninth year and the total loss until the scheme becomes self-supporting will amount to Rs.1,52,848.

5. As mentioned in para.3, the diesel electric generating station will be established at Shedbal. The station will contain one 90/100 K.W. and one 45/50 K.W. diesel engine alternator sets designed for 400/420 Volts, three phase 50 cycles and necessary controlling switchgear. The power required for Shedbal will be generated at this station and distributed in the village at the generating voltage. Extra power required for the neighbouring villages will also be generated at this station and transmitted to the various villages named in the statement giving probable loads as per enclosure 5. The power requirements in the villages comprising solely non-industrial area are expected to be relatively small in the beginning. Provision will, however, be made for supplying electricity to small industries such as rice and flour mills, oil mills, weaving looms etc., from each village substation. Enclosure 6 gives diagramtic connections of the proposed villages to the power house at Shedbal.

6. An electrical load survey of the various places in the neighbouring States of Miraj, Sangli etc. is proposed to be carried out by the authorities concerned and in the event of any demand for electric power from these quarters, the scheme of Athni Taluka may have to be revised.

Preliminary Estimate for Electrification of Proposed Villages in Athni Taluka (Dist.- Belgaum).

Power House Comprising 1 - 90/100 K.W.] 3 phase 50 cycles
45/ 50 K.W.] 4 wires.
400/440 Volts Diesel Engine - Alternator sets.

Capital Expenditure.-

Power House

1.-	Power House Building	Rs.	30,000	
	Cost of Foundations of two Diesel sets.	Rs.	1,500	
1 -	Fuel Oil Storage Tank with piping and semi-rotary pump - 3000 gallons.	Rs.	5,000	
1 -	Five Ton-overhead hand operated crane including Gantry Girders and rails	Rs.	6,000	
1 -	Concrete cooling water Tank with pipe work and small overhead after run tank	Rs.	4,500	
		Rs.	45,400	45.400

1 - 90/100 K.W.) Diesel
1 - 45/50 K.W.) engine.

Alternator sets 400/440 Volts -
3 phase.50 cycles 4 wires,

Diesel Engine Alternator sets including standard accessories and spares.. @

	Rs.	53,750	
2 - Circulating water motor pumping sets.	Rs.	3.000	
1 - Compressed air starting equipment and receiver.	Rs.	4,370	
2 - 75 K.V.A.Transformers and switchgears. (Step-up) @ 4000/-	Rs.	8,000	
1 - Open flat back type sheet steel panel. Switch board comprising. Two alternator control panels, two circuit feeder panels and one st.lighting and Power House lighting panel and synchronising bracket.	Rs.	8,500	
1 - Set Interconnecting cables between Generators and switch board and between switchboard and Termina poles structure outside the Power House.	Rs.	1,200	
Approximate cost of Erection and Superivision.	Rs.	7,500	
Miscellaneous such as Fitters and small workshop tools	Rs.	5,000	
	Rs.	1,21,300	1,21,300

TOTAL: Rs.1,69,700

Transmission and Distribution -

23	Miles of Transmission lines, using wooden poles @ Rs.7,500 per mile.	Rs.	1,72,500
16	Miles of Distribution lines using wooden poles @ Rs. 7,000/- per mile.	Rs.	1,12,000
1	- Special Structure at the Power House.	Rs.	300
2	- Special Structures one near the 'T' Junction of road to Mangwali & the other to Kudchi - on way to Ainapur.	Rs.	600
18	11 K.V.Lightning arresters @ Rs.250/- each.	Rs.	4,500
5	11 K.V.T.P. Gang operated air break switch fuses @ Rs. 1,000/- each,	Rs.	5,000
7	11 K.V. T.P.Hook operated isolators & fuses @ Rs. 300/- each.	Rs.	2,100
5	Substation structures @ Rs.600/- each.	Rs.	3,000
5	Sets L.T. Switchgear for sub-stations and connections @ Rs. 1,600/-.	Rs.	8,000
6	25 K.V.A.Step down Transformers @ Rs.2,000/- each,	Rs.	12,000
1350	Service connections @ Rs.20 each	Rs.	27,000
1350	H.S.Meters @ Rs. 38 each.	Rs.	51,300
165	St.lights and fittings @ Rs.20/- each.	Rs.	3,300
8	Power services @ Rs.150/- each.	Rs.	1,200
8	Energy Meters @ Rs.100/- each.	Rs.	800
91	Bazar Services @ Rs.40/- each.	Rs.	3,640
12	Sets L.T. Lightning Arrestors @ Rs.100/- each.	Rs.	1,200
2	Lineman's Tool box @ Rs.2000/-.	Rs.	4,000
1	Testing Apparatus	Rs.	5,000
	Erection of substations.	Rs.	2,500
		Rs.	4,19,940

Abstract -

Power House Machinery & Step up Transformers equipment.	Rs. 1,69,700
Transmission & Distribution.	Rs. 4,19,940
Contingencies.	Rs. 5,360
TOTAL:	Rs. 5,95,000

DEPRECIATION & INTEREST.

	Capital Amount. Rs.	Factor of Depreciation. Rs.	Amount of Depreciation. Rs.
Power House Building, Fuel storage and water cooling tanks etc.	46,900	0.03722	1,745
1-90/100 KW)Diesel Engine, 45150 KW)Generator sets 400/400 volts, three phase, 50 cycles, with starting ----- equipment etc.	95,100	0.05377	5,006
Transmission & Distribution.	2,84,500	0.03722	10,589
Transformers, Switchgears etc.	1,13,040	0.03722	4,207
Meters.	52,100	0.05377	2,801
Interest on Rs.5,95,000 @ 5½% per annum.			20,825
		Total...Rs.	45,175

Units Generated.

Probable sale of units in case of Non Industrial load - (including domestic, street lights, etc.)		87,636
Probable sale of units in case of Industrial load -		1,25,813
Units required for cooling water Motor pumping set -		8,760
	Total ...Rs...	2,22,209
Plus losses due to Transmission and Distribution - say about 15%		32,791
Total Generation will be ...Rs...		2,55,000

Cost of Fuel.

Fuel consumption per unit Generated. $0.66+33\frac{1}{3}\% = 0.88$ lbs.

Cost of fuel per unit Generated Fuel @ Rs.90/- Ton. $\frac{0.88 \times 1440}{2240} = 0.56$ annas.

Total quantity of Fuel required for $\frac{0.88 \times 255000}{2240} = 100$ Tons.

Cost of Lubricating Oil.

Consumption = 500 gallons / year.

Cost of unit Generated @ Rs.4/- per gallon. $\frac{500 \times 64}{2,55,000} = 0.13$ annas per unit.

Working cost under this heading - 4 X 500 = Rs.2,000/-

Cost of .....

Cost of operation & Supervision.

Including that of Transmission & Distribution.

Power House Staff.	-	Rs. 7,980
Transmission and Distribution.	-	Rs. 4,800
Office Staff.	-	Rs. 2,460
Head Office Supervision and Management say ...	-	Rs. 500
Total.		Rs.15,740/- P

Working cost under this heading will be Rs15,740/- P.A.

Cost per unit Generated will be $\frac{15,740 \times 16}{2,55,000}$ = 0.99 annas.

Water and Stores :-

Cost per unit say 0.05 annas.

Working cost under this heading = Rs. $\frac{0.05 \times 255000}{16}$

= Rs. 796/-

Repairs & Maintenance :-

Cost per unit say = 0.16 anna

Working cost under this heading = $\frac{0.16 \times 255000}{16}$

= Rs.2,550/-

Incidentals & Insurance

Cost per unit sa 0.05 anna

Working cost under this heading = $\frac{0.05 \times 25500}{16}$

= Rs.796/-

Running Cost.

	Working cost in Rs.	Cost in Annas per unit generated.
Fuel Oil.	9,000	0.56
Lub Oil.	2,000	0.13
Operation & Supervision.	15,740	0.99
Water & Stores.	796	0.05
Repairs & Maintenance	2,550	0.16
Incidental & Insurance.	796	0.05
Total Working cost Rs...	30,882	1.94

Fix charges.

Interest on capital of Rs. 5,95,000/- @ 3½ % per annum. = Rs.20,825/-

Depreciation by Sinking Fund method. = Rs.24,348/-

Total Rs.45,173/-

Fixed .....

Fixed charge per unit Generated will be $\frac{45173 \times 16}{255000}$ = 2.85 Annas.

i.e. Total Generating cost per unit = 1.94+2.85=4.77 Annas.

Annual Revenue.

Revenue from 1350 lighting consumer 73579 units @ As.6/- per unit.	s.	27,592/-
Revenue from 91 Bazar lights @ Rs.30/- P.A.	"	2,730/-
Revenue from 165 street lights @ Rs.36/- P.A.	"	5,940/-
Meter Rentals @ Rs.6/- each per annum '1350)	%	8,100/-
Fixed charge on motive power load of 74 / H.H.P. @ Rs.21/- per annum.	"	1,554/-
Motive power 1,07,575 units @ 1¼ annas per unit.	"	8,404/-
Motive power 18,240 units @ 1 anna per unit	"	1,140/-
	Total Revenue Rs.	55,460/-

Lighting Revenue.	Power Revenue.
Rs. 44,362/-	Rs. 11,098/-

Total Revenue	=	Rs. 55,460
Less Working cost	=	Rs. 30,882
		Rs. 24,578
Less Depreciation & Interest	=	Rs. 45,173
NETT LOSS. in the 5th year of working on the basis of a rate of depreciation which will make available in full the present inflated cost of the plant etc at the end of its life – vide enclosure 4 for figures for subsequent years.	=	Rs. 20,595

Encl 3.

List of Operating Staff for the Village Electrification Scheme in the ATHNI Taluka.

Power House.

1. Assist. Engineer & Manager.
1. Electrical & Mechanical Foreman.
3. Engine attendants.
3. Switchboard attendants.
3. Coolies.

Transmission & Distribution.

1. Line foreman.
4. Linemen.
4 Coolies.
1. Meterman.

Office Staff.

1. Assist. Accountant, Cashier & Head-Clerk.
2. Clerks.
1. Chaprasi.

Encl : 3.

Encl 4.

Electrification of Villages in Athni Taluka.

Basis cost of fuel :-

Rs.90/- per Ton + 15% for 1st year.
Rs.90/- per Ton + 10% for 2nd year.
Rs.90/- per Ton + 5% for 3rd year.
Rs.90/- per Ton for the fourth and subsequent years.

Basis Tariff Rates :-

6 As. per unit for lighting.
1½ As. per unit for the first 2000 units of motive power and 1 anna per unit for all the additional units plus a fixed charge of Rs.1-12-0 per month per H.P. connected.

year	Probable Max. demand in K.W.	Probable Revenue.			Probable sale of Units.			Total units generated	Approximate working cost.	Amount Nett Dep. & Int. Basis depreciation rates making present cost available.	Profit or Loss.	Amount Dep.& Interest Basis depreciation rates making 2/3 rds of present cost available.	Nett Profit or loss.
		Lighting	Power	Total.	Lighting	Power	Total.						
1st.	19	8,870	3,699	12,569	17,527	41,937	59,464	71,000	24,732	45,173	[illegible]	37,057	-49,220
2nd.	42	22,176	7,598	29,574	43,[illegible]	83,874	1,27,69[illegible]	1,52,000	27,782	45,173	-45,381	37,057	-35,265
3rd.	63	33,264	8,878	42,142	65,727	1,00,650	1,66,377	2,00,000	29,295	45,173	-32,324	37,057	-24,208
4th.	60	39,917	9,988	49,905	78,872	1,13,231	1,92,10[illegible]	2,30,000	30,000	45,173	-25,268	37,057	-17,152
5th.	66	44,362	11,098	55,460	87,636	1,25,813	2,13,449	2,55,000	30,882	45,173	-20,595	37,057	-12,479
6th.	71	48,787	11,653	60,440	96,400	1,32,104	2,28,504	2,73,000	31,518	45,183	-16,251	37,057	- 8,135
7th.	74	52,114	12,208	64,322	1,02,972	1,38,394	2,41,366	2,90,000	32,118	45,173	-12,969	37,057	- 4,853
8th.	78	55,440	12,763	68,203	1,09,545	1,44,685	2,54,230	3,05,000	32,682	45,173	- 9,652	37,057	- 1,536
9th.	82	58,767	13,317	72,084	1,16,117	1,50,975	2,67,092	3,20,000	33,183	45,173	- 6,272	37,057	+ 1,844
10th.	86	62,093	13,872	75,965	1,22,690	1,57,266	2,79,956	3,35,000	33,680	45,173	- 2,888	37,057	+ 5,228

Encl:4.

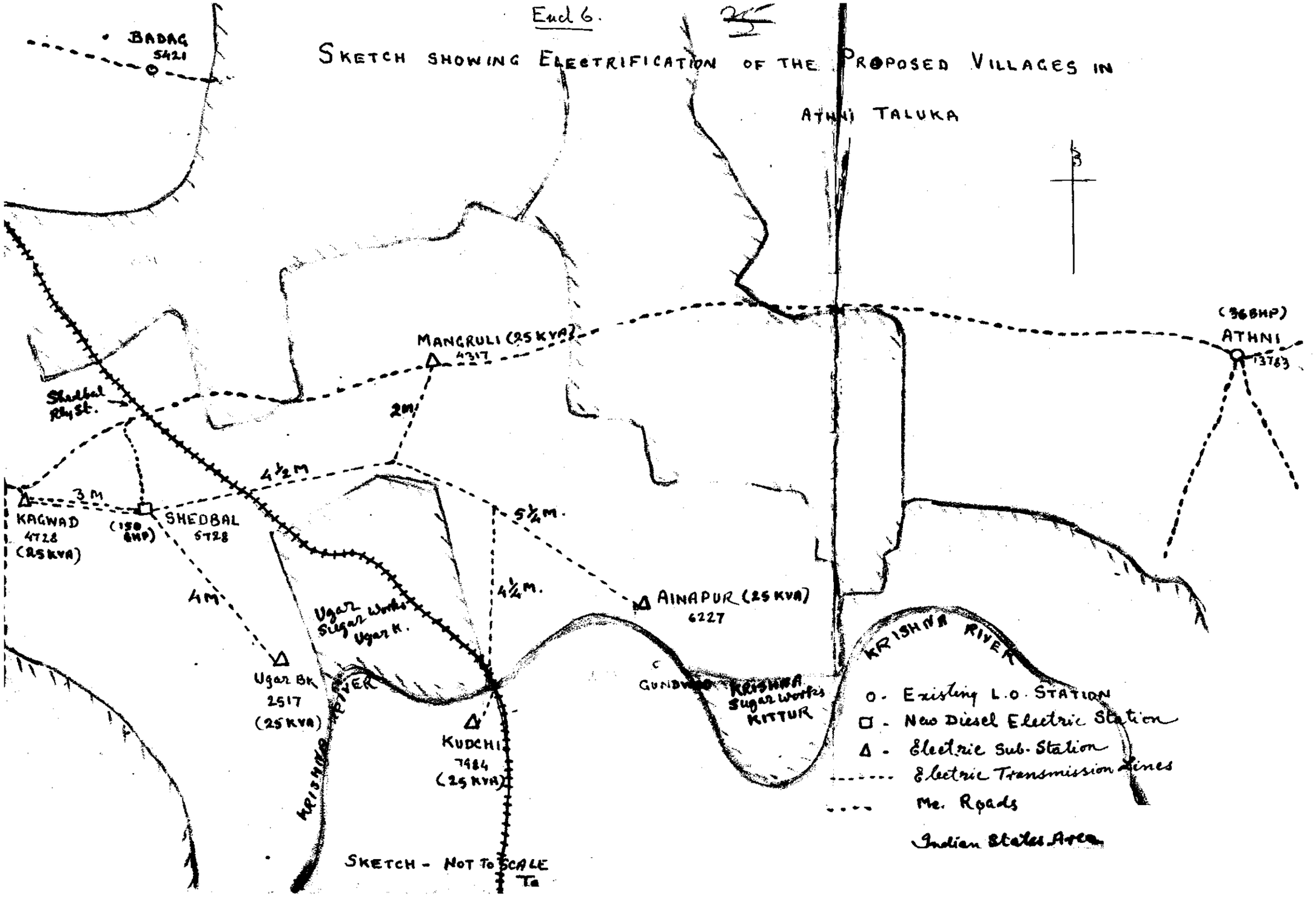
17 Ends

No.	Name of Generating Station.	Name of village.	Approximate length of Transmission line.	Approximate length of Distribution line.	Population.	Night load K.W.	Day load K.W.	Probable sale of units.
1	2	3	4 Miles	5 Miles	6	7	8	9
1.	Shedbal	Shedbal	-	3.0	5,788	10.10	9.00	45,601
2.	"	Kagwad	3.0	2.5	4,788	7.90	20.00	46,045
3.		Ugar B.K.	4.0	2.0	3,517	3.91	6.00	21,025
4.	"	Endahi	4.25	3.5	7,984	21.00	-	34,000
5.	"	Ainapur	5.25	3.0	6,227	9.00	6.00	31,967
6.	"	Mangruli	6. 5	2.0	4,317	5.82	11.50	36,025
	Total		23. 0	16.0	31,501	57.73	52.50	2,13,449

Encl.- 5.

End 6.

SKETCH SHOWING ELECTRIFICATION OF THE PROPOSED VILLAGES IN ATHNI TALUKA



Letter.

No,Elg.139/2437
Office of the Special Officer(Elec.Grid),
Old Custom House Yard, Fort,
Bombay, 30th June, 1945.
3rd July

To

S.S.Bodas, Esquire, B.A.,
Prant Officer on Special Duty,
Athni Taluka, Athni (Dist: Belgaum).

Subject :- Note on the proposed electrification of the Athni Taluka, Belgaum District.

Reference :- Government Resolution, Reconstruction Department, No.149, dated 2nd May, 1945.

With reference to the Government Resolution cited above I attach hereto a copy of the note on the proposed electrification of the villages in the Athni Taluka.

Sd.P.B.Advahi

Special Officer
(Electric Grid).

Encl: Note.
DDA.

No.Elg.139/2438
Bombay, 30th June, 1945.

Copy together with copies of enclosures forwarded with compliments to the Secretary to Government, Public Works Department, Bombay, for information, with reference to Government Resolution, Public Works Department, No.7413/36-R dated 25th May 1945.

2. It is requested that Government be pleased to consider the proposals and issue orders in due course.

P-3

P.B. Advani
Special Officer(El.Grid).

DDA.

7413/36
21883

P.W.R.B.

2b

P.W. Dept.

Submitted for information with reference to G.L. No. 7413/36, dt. 25th May 1945.

2. Perusal is solicited of para. two of the S.O's endt. to the note on the proposed electrification of the Allini Taluka submitted by the S.O. will be considered by the R.C.D. before including it in their final report of that Taluka. In the meantime, these papers may be shown n.o. to the R.C.D for information.

3. Note from the S.E., P.C., with reference to the G.L. quoted above may be awaited.

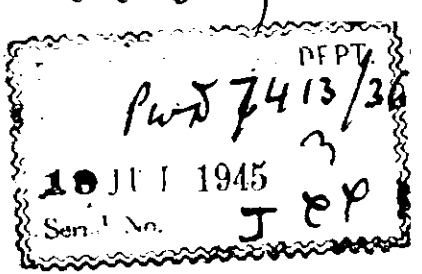
Dy. No. D.E. (9)

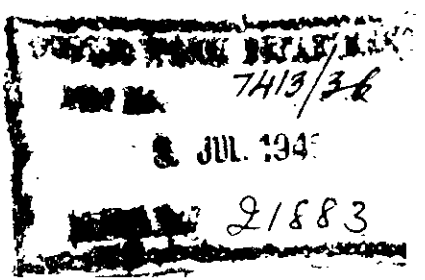
(MS) 10/7/45 Bdg 11-7-45

16/7/45

17/7/45

Now to R.C.D. 8





27 RCD 29

The Spl. Officer, Electric Grid, has sent his proposals to the Spl. Asst. Officer, Athni, who will take them into consideration while preparing his report. The report will be shown to P.W.D. in due course and that Dept. may check the portions pertaining to it.

PWRB 24/7. 2. These papers may be returned to P.W.D.

RHJ. 21.7.45

AS.

Letter to P.W.D. dated 23rd July 1945.

7413/36
24 JUL 1945
24319.

(P.W.R.B.)

Submitted for information.

1. S.E.P.C. may be expedited vide ~~with reference to~~ para. 3 of O.N. dated 10-7-45.

2. Expedited under no. 7413/36-R-I dated 24th July 1945.

M.A.C. 25/7

M.A.C. 25-7-45.

25-7-45

25/7

Post-War Reconstruction.
Athni Taluka

Government of Bombay.
Reconstruction Department.
Circular Memorandum No.149-E.
Bombay Castle, 2nd October 1945.

Circular Memorandum.

A copy of Mr.Bodas' report on the planning of Athni taluka is forwarded to the below mentioned officers and department with a request to send to this Department by 31st October 1945 at the latest their

(1) comments and suggestions on the proposals generally, and

(2) a statement of the works which should be undertaken:-

(a) during the rest of the current financial year, and

(b) from 1st April 1946 to 31st March 1947.

The following paragraphs give some of the points on which comments are specially required

2. The Collector and Commissioner should comment especially on the point whether centres of reconstruction are necessary in this taluka.

3. The Public Works Department should comment especially on the method of charging the States for the short length of roads crossing through their territories. It seems roads adjoining short lengths of State roads will have to be specially considered.

4. The Director of Agriculture should include the Boring Scheme in the statement of works to be started immediately

5. The Director of Veterinary Services should comment on the point whether three dispensaries would be required or two would suffice, and, if the latter, where they should be located.

6. The Registrar of Co-operative Societies should give details of the non-recurring expenditure in schemes Nos.55 and 56.

7. The General Department should comment on the feasibility or otherwise of the suggestion regarding Government undertaking the scheme for water supply in the Athni municipal area.

8. The officers should send their remarks through the administrative departments concerned in good time to enable the departments

X 30

departments to scrutinise their comments before passing them on to this Department and not later than 15th October 1945.

By order of the Governor of Bombay,

E.W.Perry
Secretary to Government.

Circular Memorandum, Reconstruction Department, No.149-E, dated 2nd October 1945.

*The Commissioner, Southern Division,
*The Collector of Belgaum,
*The Director of Agriculture,
*The Registrar of Co-operative Societies,
*The Special Officer, Electric Grid,
*The Surgeon General with the Government of Bombay,
*The Director of Public Health,
*The Director of Public Instruction,
*The Director of Industries,
*The Chief Engineer, Public Works Department (Irrigation),
*The Chief Engineer, Public Works Department (Roads and Buildings),
*The Superintending Engineer, Project Circle,
*The Chief Conservatorof Forests,
*The Director of Veterinary Services,
*The Land Improvement Officer,(General),
*The General Department,
*The Educational Department,
*The Public Works Department,
*The Revenue Department,
*The Home Department,
*The Political and Services Department,

*With a copy of the plan.

No. of 1945.

Copy forwarded for information and guidance to.

NRV2/10

T.C. Js
Subject
- Recon
file no
7413/36.

Copy of the letter No.Elg.139-3277; dated 6th October 1946, from the Special Officer (Electric Grid),Old Custom House Yard, Fort,Bombay, to the Secretary to Government, Public Works Department,Bombay, regarding Post War Reconstruction-Athni Taluka.

"Reference:- Government Circular Memorandum,Reconstruction Department,No.149-E, dated 2nd October 1945.

I have no comments to make except that in the statement regarding "Financial and Technical details of Electric Grid Scheme" on page 14 of the Report under the 'Basis cost of Fuel" 15 per cent for 1st year, 10 per cent for 2nd year and 5 per cent for 3rd year, have been shown as minus.These should be plus and the Basis cost of fuel should read as under:-

Rs.90 per ton plus 15 per cent for 1st year.
Rs.90 per ton plus 10 per cent for 2nd year.
Rs.90 per ton plus 5 per cent for 3rd year etc.

No.7413/36-El.(I). Public Works Department
Bombay Castle,13th October 1945.

Copy forwarded to the Re-Construction Department for information and necessary action with reference to that Department Circular Memorandum No.149-E, dated the 2nd October 1945.

A.S.B. 12-10-45.

By order of the Govr.of Bombay,

Sd.D.N.Daruwala,
Assistant Secretary to the Government of Bombay,
Public Works Department.

R.C.D.

El.

The S.O./Grid, has not forwarded a statement of the works which should be undertaken in 1945-46 and 1946-47 This may therefore be returned u.o.to P.W.D. and that Deptt. may be requested to obtain it from the S.O.

Id. 23-x-45. Id. 23/10/45.

Very urgent.

U.o.to P.W.D. dated 23rd Oct.1945.

El.Br.(I) P.W.D. R.C.D.149/19497/35333

El.

The attention of the S.O.(Grid) may be invited to para.1(2) of the circular Memo.on p.1 ante and he may be requested u.o. to comply with the R.C.D. request in their note dated the 23-10-45.

Jd. G.K.N. Id.A.S.B. 25-10-45. Telo/ A.B. Id.D.N.D. 26/10/45.

V.Urgent.

U.o. to the S.O(El.Grid) dated 27-10-45.

Below u.o.r. No.RCD 149/19497/35333 from the P.W.D. Bombay.

------Office of the S.O.(El.Grid).

The possibility of undertaking the works for the Athni taluka scheme in the year 1946-47 has been considered in the event of the scheme being sanctd.in the near future. For the purpose,of setting out the programme the scheme is sub divided as under:-

(1) Estabt.of Power house at Shedbal including electrification of the village of Shedbal.
(2) Electrification of other villages off Shedbal power station.

Since the works for the electrification of the village of Shedbal will be identical to those to be provided for places in the Ratnagiri Dist.and only 120 poles will be required for the purpose of distribution in the village this part of the scheme under (1) will be planned to be undertaken along with the other works in the Ratnagiri Dist.on the assumption that separate construction staff comprising one techl. asstt.(Civil) and the other el.staff willbe provided for this work.

As regards (2) it is estimated that the specification for over-head lines sub-station equipment etc.,will be ready for issue by 1st July 1946 and materials such as copper wire,insulators, cross arms etc; may be received from the suppliers before the end of the year 1946-47 and provided some 1000 poles addition to 8000 poles reqd. for the scheme already sanctioned are available, the part of the scheme under (2) can be commenced along with the other Taluka Schemes.

2. On the above basis the amount reqd. for 1946-47 will be as under:-

	Estimated expen. Rs.	Amt.for 1946-47 Rs.
(1) Estabt.of Power Station at Shedbal.	2,17,000	1,51,900
(2) Electrification of other villages off Shedbal Power House.	3,78,000	56,700
	5,95,000	2,08,600

Id.P.B.A.

To
Secy.to Govt.
P.W.D.Bombay.

u.o.r. No.Elg.139/3665
Bombay,2nd Nov.'45.

El.Br.(I).
Submitted with ref.to the O.N. dated the 25-10-45.

2. The informn. supplied by the S.O. may be sent u.o. to the R.C.D. after keeping copies of pp.4-8 ante.

Id.A.S.B.

Id.A.R.T.
6/11-

A.B.O.N. P. W. D.

In connection with Mr.Bodas' report on the planning of Athni Taluka, the S.O.(Grid)'s comments have been communica the R.C.D. In the absence of final orders in the matter fro Deptt.,it is presumed that the budget provisions for the tw works at Shedbal for the next year asked for by the S.O. is be made. The R.C.D. may see this u.o. for confirmation.

Id.G.A.N.
17-11-45.

Id.D.N.D.
19/11/45

Id.S.G.J.
19-11-45.

U.O. to R.C.D. dated 20/11/45

R.C.D.

The P.W.D. comments on Sections II,III,VII and XII of the Athni report are still awaited. The case is therefore pending i... office. The P.W.D. may be requested u.o. to send them immediately. They were due on 31-10-45. It will take about two months more for the report to be finally published and it cannot be anticipated that Govt. will approve of the ~~an~~ electrification scheme to be taken up next year. In the circumstances P.W.D. view may be confirmed. If it is taken up next year the charge can be met by asking for a supplementary grant.

Id.
21-11-45.

Id.
21/11/45.

U.O. to P.W.D. dated 22-11-45

3
PA.
18/1-.
18-1-46

Await (1-2-46)

7413/36(I).

P. W. D.

El.Br.(I).

Govt. in R.C.D. selected the Athni Taluka of Belgaum Dist. as the second area in the Southern Division for P.W.R. planning and Mr.S.S.Bodas was appointed Prant Officer on spl.duty in charge of Athni Taluka and all Heads of Deptts. were requested to send to Mr.Bodas short outlines of the departmental plans which they considered suitable for applcn. to the Taluka in question - vide, G.R. R.C.D.No.149, dated the 2nd May 1945. In G.L.No.7413/36-R, dated the 25th May 1945, the S.O. El.Grid was requested to furnish to this Deptt. a copy of any notes that may be supplied by him to Mr.Bodas. Accordingly the Special Officer (Electric Grid) submitted a copy of the note on the proposed electrification of the villages in the Athni Taluka. - vide, his No.Elg.139/ 2108, dated the 3rd July 1945. The note will be found on pp.5-24 ante. It was shown u.o. to the R.C.D. for consideration by that Deptt. before including it in the final report of the Athni Taluka - vide, this Deptt. u.o.r. dated the 19th July 1945. The R.C.D. then issued a cir.memo. No.149-E, dated the 2nd October 1945, forwarding therein a copy of Mr.Bodas' report on the planning of Athni Taluka to various officers (including the S.O.) and Deptts. with a request to send to that Deptt.

(a) Comments and suggestions on the proposals generally and.

(b) A statement of works which should be undertaken (i) during the rest of the current financial year and (ii) from 1-4-46 to 31-3-47.

The information supplied by the S.O., in this con. was sent u.o. to the R.C.D. for information and necessary action - vide G.E.No.7413/36-El.(I), dated the 13th October 1945 and the O.N. dated the 6th November 19

2. The R.C.D. however states that the proposals or electrification schemes in concentrated area Talukas submitted by the S.O will have to be considered by this Deptt. and final orders thereon will also have to be issued by this Deptt. in consultation with the R.C.D. - vide, that Deptt. u.o.r. dated the 30th January 1946. Accordingly a note on the S.O's proposals in con. with the electrification of Athni Taluka is put up below.

3. Under the Scheme the six villages will be electrified viz. (1) Shedbal (2) Kagwad, (3) Ugar B.K., (4) Kudchi, (5) Sinapur, (6) Mangruli. The generating station will be Shedbal.

4. The total cost of the scheme will amount to Rs.5,95,000 approximately - vide, enclosure 1. The probable loss involved in the fifth year of working will be Rs.20,595 - vide, enclosure 2. If depreciation at full rates is allowed for, the scheme is not likely to become self-supporting within ten years of working. The total loss likely to be involved over a period of ten years will amount to Rs.2,26,936.

In estimating the above figure, the amount for depreciation has been calculated by the S.O. on the basis of normal physical life of the plant adopting sinking fund method. The S.O. states that the rate for depreciation is based on the present inflated prices and assumes that after the normal life of the plant is over and replacement becomes due, the prices then prevailing may be some two thirds of the present prices and hence as an alternative, profit and loss figures have also been worked out by the S.O. on the basis of depreciation rates which will at the end of the normal life of the plant make available 2/3 of the present cost of the plant - vide, enclosure 4. If this basis of depreciation, is agreed to, the Scheme is likely to become self-supporting from the ninth year when the net profit for that year will be Rs.1844. The F.D's advice will be sought in the matter on return of these papers from the R.C.D.

5. The basis cost of fuel and basis tariff rates in con. with the scheme are given below:-

Basis cost of fuel

Rs.90 per ton — 15% for 1st year.
Rs.90 " — 10% for 2nd year.
Rs.90 " — 5% for 3rd year.
Rs.90 " for the fourth year and subsequent years.

Basis Tariff rates.

6 As. per unit for lighting
1¼ as. per unit for the first 2000 units of motive power and 1 anna per unit for all the additional units plus a fixed charge of Rs.1-12-0 per month per H.P. connected.

6. In the last para. of his note on the scheme on pp.5-6, the S.O. states that an electrical load survey of the various places in the neighbouring states of Miraj, Sangli etc. is proposed to be carried out by the authorities concerned and in the event of any demand for electric power from these quarters, the scheme of Athni Taluka may have to be revised.

Subsequently, in his u.o.r. No.Elg.139/3665, dated the 2nd November 1945, the S.O. states that he has considered the possibility of undertaking the works for the scheme in the year 1946-47 in the event of the scheme being sanctioned in the near future. For that purpose he has sub-divided the scheme as under

(a) Estabt. of Power house at Shedbal including electrification of the village of Shedbal.

(b) Electrification of other villages

Shedbal power station.

The S.O. proposes part (a) of the scheme to be undertaken along with the other works in the Ratnagiri Dist. and part (b) of the scheme to be commenced along with the other Taluka Scheme. This Department may agree with the Special Officer. The Reconstruction Department may however see the papers before further action is taken.

RECONSTRUCTION DEPT. File P.W.D 7413/36(1) 16 FEB 1946 Serial No. (1) G xxx 7

ABS 13-2-46

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WA/12/2/46.

5. The basis cost of fuel and basis tariff rates in con. with the scheme are given below:-

Basis cost of fuel.		Basis Tariff rates.
Rs.90 per ton	15% for 1st year.	6 As. per unit for lighting.
Rs.90 "	10% for 2nd year.	1¼ as. per unit for the firs
Rs.90 "	5% for 3rd year.	2000 units of motive power
Rs.90 "	for the fourth year and subsequent years.	and 1 anna per unit for all the additional units plus a fixed charge of Rs.1-12-0 per month per H.P. connected.

6. In the last para. of his note on the scheme on pp.5-6, the S.O. states that an electrical load survey of the various places in the neighbouring states of Miraj, Sangli etc. is proposed to be carried out by the authorities concerned and in the event of any demand for electric power from these quarters, the scheme of Athni Taluka may have to be revised.

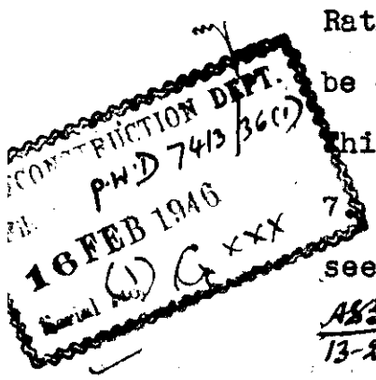
Subsequently, in his u.o.r. No.Elg.159/3665, dated the 2nd November 1945, the S.O. states that he has considered the possibility of undertaking the works for the scheme in the year 1946-4 in the event of the scheme being sanctioned in the near future. For that purpose he has sub-divided the scheme as under

(a) Estabt. of Power house at Shedbal including electrification of the ½ village of Shedbal.

(b) Electrification of other villages off Shedbal power station.

The S.O. proposes part (a) of the scheme to be undertaken along with the other works in the Ratnagiri Dist. and part (b) of the scheme to be commenced along with the other Taluka Scheme. This Department may agree with the Special Officer.

7. The Reconstruction Department may however see the papers before further action is taken.



ABS
13-2-46.

Reconstruction Deptt.

These P.W.D. pps. relate to the electrification scheme for Athni taluka.

2. The S.O.,Elec. Grid. has sub-divided the scheme as stated at "A" of the P.W.D. note of 13-2-46 on pre-page. There does not appear to be any objection to the scheme being divided in two parts as such divisions are necessary in projects of this kind. It is not, however understood what the S.O. wants to convey by stating that the 1st part of the scheme, i.e. establishment of Power house at Shedbal including electrification of Shedbal village, will be taken up along with the other works in Ratnagiri distt. If it means that this scheme will be taken up along with any other scheme of this nature in other talukas in Ratnagiri distt. it appears that this scheme will be needlessly delayed, if it is ultimately to be taken up. The P.W.D. may, therefore, be requested to consider this scheme independently at this stage and decide whether it should be taken up immediately.

The pps. may be returned to the P.W.D. with the foregoing remarks.

19-2-46

Jt. Secy.

P.W.D. ता. 20 February 1946

P. W. D.
File No. 7413/36(1)
Serial No. 7254.

7413/36(1)/7254
P. W. Deptt.

El.Br.(I).

p35-37

Submitted with ref. to the O.N. dated the 13-2-46.

2. With ref. to the statement at P in the R.C.D. note, p38 dated the 19-2-46, it is stated that the scheme in question will not be delayed even if the first part of the scheme i.e. establishment of Power house at Shedbal including electrification of Shedbal village is taken up along with any other scheme of this nature in other talukas in Ratnagiri Dist. because the scheme in con. with the electrification of the Ratnagiri Dist. has already been sanctioned and orders thereon issued vide G.R.No.6730/36(4), dated the 11-10-45. The S.O's. proposal of sub-dividing the scheme into two parts as mentioned at A on p.37 may therefore, be accepted

will be set up if req'd

3. In con. with similar proposals on electrification of Pardi and several other Talukas in the concentrated rural areas submitted to Govt. by the S.O. it has been proposed to refer them back to that officer for deciding the order of priority according to which several schemes should be taken up and with a request to fix the talukas in which the Grid System should be pursued in the first five years and those in which it should be deferred to second phase. The S.O. may be requested u.o. to suggest the order of priority in con. with this scheme also while deciding the same for several other taluka schemes.

4. Necy. further action in the matter will be taken on return of these papers from the S.O.

7413/86 Cls"

El-Rg. C I,

Submitted. P. & D.

2. These papers deal with the proposals for the electrification of ~~Hathi~~ Athni Taluka. They were refd. no. to the S.O. El-Grid) for suggesting the order of priority in con. with this scheme, while deciding the same for several other taluka schemes, approximations for which were prepared by the S.O. in pursuance of the former Govt's. policy of developing "Concentrated rural areas" in the first instance. The S.O. returned these papers with the main case No. 6730/36 (4), dealing with the electrification of small towns under the Bombay El. Grid System. The papers were kept as F.R. to the main file wtd. to wherein it has now been decided to take up those nursery schemes in the first instance where production of wealth from industries or agriculture can be increased; and accordingly, Govt. has authorised the S.O. to undertake detailed investigations for the electrification of some twenty one towns in this Province — ~~vide, G.R. No. 6730/36 (4), d. the~~ and that officer has been asked to submit his proposals in each case for the consideration and approval of Govt. — vide, G.R. No. 6730/36 (4), d. the 14/1-4/. Now if the villages in the Athni Taluka is included in the list of places mentioned in the G.R. quoted above. Presumably, the Athni electfcn. scheme discussed in these papers is not now to be undertaken (If so, no action seems nely. on these papers which may now be recorded, if appx.